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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8343 (1977): Forceps, Biopsy, Peterson's Pattern [MHD 4 : Ear, Nose and Throat Surgery Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard
**SPECIFICATION FOR
 FORCEPS, BIOPSY, PETERSON'S PATTERN**

1. Scope — Dimensional and other requirements for Peterson's pattern biopsy forceps of sizes 20, 25, 30, 35, 40, 45, 50, 55 and 60 cm used in ENT surgery.

2. Shape and Dimensions — As shown in Fig. 1.

2.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.

2.2 A deviation of $\pm 2^\circ$ shall be allowed on all angular dimensions.

3. Material — The forceps shall be made of stainless steel conforming to Designation 40Cr13 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

4. Workmanship and Finish

4.1 The forceps shall be free from scales, burrs, cracks, pits, tool marks and other surface defects.

4.2 All edges shall be smoothly rounded off except the cutting edge which shall be as shown in Fig. 1.

4.3 The jaws shall open and close fully and freely without any stiffness.

4.4 The forceps shall be passivated and shall have matt finish.

5. Heat Treatment

5.1 The forceps shall be uniformly hardened and tempered to give a hardness of 540 to 600 HV.

6. Tests

6.1 Performance — The forceps shall be made to punch a 1/2 mm thick card-board sheet. The forceps shall do this easily and cleanly. This shall be repeated 10 times. During or on completion of the test, the cutting edges of the forceps shall show no sign of damage.

6.2 Flexibility — The flexibility shall be tested in the following manner.

6.2.1 The jaws shall be made to bite a piece of firm rubber about 3.00 mm thick and the finger loops closed as fully as possible. On release, the forceps shall not show any sign of damage or the upper jaw shall not become loose at the hinges.

6.2.2 A force of moderate degree shall be applied by the fingers to the shank attempting to bend the shank on the width. This shall be repeated at several points along the shank. The test shall, then, be repeated in a plane at right angles to the first. On completion of the test the shank shall not have acquired permanent set.

6.3 Corrosion Resistance — The forceps shall be tested in accordance with IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance stainless steel surgical instruments '. There shall not be any signs of corrosion and the arms shall move freely at the joint at the end of the test.

7. Marking — The forceps shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark and the country of manufacture.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The forceps shall be wrapped in moisture-proof paper or packed in polyethylene bag. Each forceps shall then be packed in individual cartons. The forceps may also be packed as agreed to between the purchaser and the supplier.



AMENDMENT NO. 1 DECEMBER 1984
TO
IS : 8343 - 1977 SPECIFICATION FOR FORCEPS, BIOPSY,
PETERSON'S PATTERN

Corrigenda

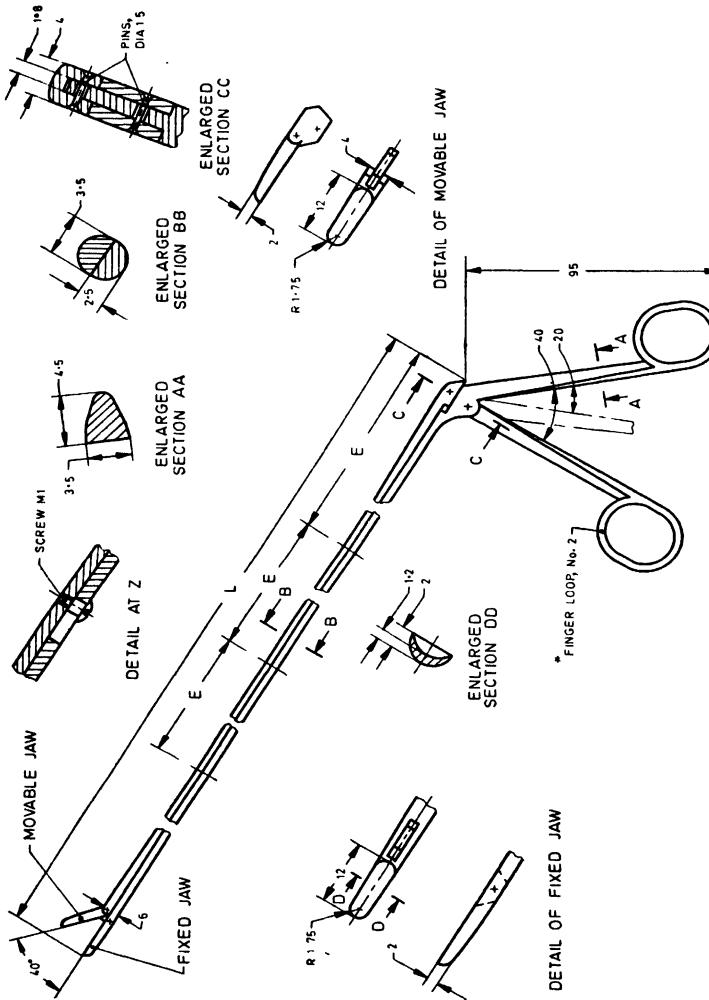
(*Page 1, title*) — Substitute the following for the existing title:

' Indian Standard '

**SPECIFICATION FOR FORCEPS, BIOPSY,
PATERSON'S PATTERN '**

(*Page 1, clause 1, line 1*) — Substitute " Paterson's " for " Peterson's ".

(*Page 2, Fig. 1*) — Substitute the following figure on page 2 for the existing figure:



$L = 200, 250, 300, 350, 400, 450, 500, 550 \text{ and } 600$
 $E = 100$

*See IS : 3642-1966 'General requirements for surgical instruments'.

All dimensions in millimetres.
FIG. 1 FORCES, BIOPSY, PETERSON'S PATTERN